DATE: 10/10/2002 PATENT APPLICATION: US/08/325,278B TIME: 10:34:28

Input Set : D:\402.app.txt

Output Set: N:\CRF4\10102002\H325278B.raw

SEQUENCE LISTING

RAW SEQUENCE LISTING

```
4 (1) GENERAL INFORMATION:
C-->
             (i) APPLICANT: Bjorck, Lars
                            Sjobring, Ulf
            (ii) TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
      9
     11
           (iii) NUMBER OF SEQUENCES: 15
            (iv) CORRESPONDENCE ADDRESS:
     13
                  (A) ADDRESSEE: Seed IP Law Group
     14
     15
                  (B) STREET: 701 Fifth Avenue Suite 6300
                  (C) CITY: Seattle
     16
                  (D) STATE: Washington
     17
     18
                  (E) COUNTRY: USA
                  (F) ZIP: 98104-7092
     19
                                                                ENTERED
             (v) COMPUTER READABLE FORM:
     21
                  (A) MEDIUM TYPE: Floppy disk
     22
                  (B) COMPUTER: IBM PC compatible
     23
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     24
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     25
            (vi) CURRENT APPLICATION DATA:
     27
                  (A) APPLICATION NUMBER: US/08/325,278B
C--> 28
                  (B) FILING DATE: 26-Oct-1994
C--> 29
                  (C) CLASSIFICATION:
     30
          (viii) ATTORNEY/AGENT INFORMATION:
     32
                  (A) NAME: Potter, Jane E. R.
     33
                  (B) REGISTRATION NUMBER: 33,332
     34
                  (C) REFERENCE/DOCKET NUMBER: 100084.402
     35
            (ix) TELECOMMUNICATION INFORMATION:
     37
                  (A) TELEPHONE: (206) 622-4900
     38
                  (B) TELEFAX: (206) 682-6031
     39
     42 (2) INFORMATION FOR SEQ ID NO: 1:
            (i) SEQUENCE CHARACTERISTICS:
     44
                  (A) LENGTH: 305 amino acids
     45
     46
                  (B) TYPE: amino acid
                  (C) STRANDEDNESS: unknown
     47
                  (D) TOPOLOGY: unknown
     48
            (ii) MOLECULE TYPE: protein
     50
           (iii) HYPOTHETICAL: NO
     52
     54
           (vi) ORIGINAL SOURCE:
                  (A) ORGANISM: Escherichia coli LE392/pHDL, DSM 7054
     55
     59
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
            Ala Val Glu Asn Lys Glu Glu Thr Pro Glu Thr Pro Glu Thr Asp Ser
     61
                             5
                                                 10
     62
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Glu Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Phe Ala Asn Gly Ser

Input Set : D:\402.app.txt

```
30
65
        Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Lys Ala Thr Ser Glu
67
                                     40
68
70
        Ala Tyr Ala Tyr Ala Asp Thr Leu Lys Lys Asp Asn Gly Glu Tyr Thr
71
                                 55
        Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly
73
74
                            70
76
        Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
                                             90
77
        Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
79
80
                                         105
                    100
        Thr Phe Glu Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Ala Leu
82
83
                                     120
        Lys Lys Asp Asn Gly Glu Tyr Thr Val Asp Val Ala Asp Lys Gly Tyr
85
                                                     140
                                135
86
        Thr Leu Asn Ile Lys Phe Ala Gly Lys Glu Lys Thr Pro Glu Glu Pro
88.
89
                            150
                                                 155
91
        Lys Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Tyr Ala Asp Gly Lys
92
                        165
                                             170
94
        Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Glu Ala Thr Ala Glu
95
        Ala Tyr Arg Tyr Ala Asp Leu Leu Ala Lys Glu Asn Gly Lys Tyr Thr
97
98
                                     200
         Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly
100
101
                                  215
         Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
103
104
                             230
                                                  235
         Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
106
107
                         245
                                              250
109
         Thr Phe Ala Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Leu Leu
110
                                          265
112
         Ala Lys Glu Asn Gly Lys Tyr Thr Ala Asp Leu Glu Asp Gly Gly Tyr
113
                                      280
                                                           285
         Thr Ile Asn Ile Arg Phe Ala Gly Lys Lys Val Asp Glu Lys Pro Glu
116
                                  295
118
         Glu
119
         305
121 (2) INFORMATION FOR SEQ ID NO: 2:
123
         (i) SEQUENCE CHARACTERISTICS:
124
              (A) LENGTH: 921 base pairs
125
              (B) TYPE: nucleic acid
126
              (C) STRANDEDNESS: double
              (D) TOPOLOGY: unknown
127
129
        (ii) MOLECULE TYPE: DNA (genomic)
       (iii) HYPOTHETICAL: NO
131
133
        (vi) ORIGINAL SOURCE:
              (A) ORGANISM: Escherichia coli LE392/pHDL, DSM 7054
134
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
140 GCGGTAGAAA ATAAAGAAGA AACACCAGAA ACACCAGAAA CTGATTCAGA AGAAGAAGTA
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Input Set : D:\402.app.txt

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142 ACAATCAAAG CTAACCTAAT CTTTGCAAAT GGAAGCACAC AAACTGCAGA ATTCAAAGGA
                                                                           120
144 ACATTTGAAA AAGCAACATC AGAAGCTTAT GCGTATGCAG ATACTTTGAA GAAAGACAAT
                                                                           180
146 GGAGAATATA CTGTAGATGT TGCAGATAAA GGTTATACTT TAAATATTAA ATTTGCTGGA
                                                                           240
148 AAAGAAAAA CACCAGAAGA ACCAAAAGAA GAAGTTACTA TTAAAGCAAA CTTAATCTAT
                                                                           300
150 GCAGATGGAA AAACACAAAC AGCAGAATTC AAAGGAACAT TTGAAGAAGC AACAGCAGAA
                                                                           360
152 GCATACAGAT ATGCAGATGC ATTAAAGAAG GACAATGGAG AATATACAGT AGACGTTGCA
                                                                           420
154 GATAAAGGTT ATACTTTAAA TATTAAATTT GCTGGAAAAG AAAAAACACC AGAAGAACCA
                                                                           480
156 AAAGAAGAAG TTACTATTAA AGCAAACTTA ATCTATGCAG ATGGAAAAAC ACAAACAGCA
158 GAATTCAAAG GAACATTTGA AGAAGCAACA GCAGAAGCAT ACAGATATGC TGACTTATTA
                                                                           600
160 GCAAAAGAAA ATGGTAAATA TACAGTAGAC GTTGCAGATA AAGGTTATAC TTTAAATATT
                                                                           660
162 AAATTTGCTG GAAAAGAAAA AACACCAGAA GAACCAAAAG AAGAAGTTAC TATTAAAGCA
                                                                           720
164 AACTTAATCT ATGCAGATGG AAAAACTCAA ACAGCAGAGT TCAAAGGAAC ATTTGCAGAA
                                                                           780
                                                                           840
166 GCAACAGCAG AAGCATACAG ATACGCTGAC TTATTAGCAA AAGAAAATGG TAAATATACA
168 GCAGACTTAG AAGATGGTGG ATACACTATT AATATTAGAT TTGCAGGTAA GAAAGTTGAC
                                                                           900
                                                                           921
170 GAAAAACCAG AAGAATAATA A
172 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
174
175
             (A) LENGTH: 434 amino acids
176
              (B) TYPE: amino acid
177
              (C) STRANDEDNESS: unknown
178
              (D) TOPOLOGY: unknown
       (ii) MOLECULE TYPE: protein
180
182
       (iii) HYPOTHETICAL: NO
        (vi) ORIGINAL SOURCE:
184
              (A) ORGANISM: Escherichia coli LE392/pHDLG, DSM 7055
185
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
189
        Ala Val Glu Asn Lys Glu Glu Thr Pro Glu Thr Pro Glu Thr Asp Ser
191
192
                                             10
        Glu Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Phe Ala Asn Gly Ser
194
195
                                         25
197
         Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Lys Ala Thr Ser Glu
198
                                     40
200
         Ala Tyr Ala Tyr Ala Asp Thr Leu Lys Lys Asp Asn Gly Glu Tyr Thr
201
                                 55
203
         Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly
204
                             70
                                                  75
206
         Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
207
209
         Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
210
                                         105
212
         Thr Phe Glu Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Ala Leu
213
                                     120
         Lys Lys Asp Asn Gly Glu Tyr Thr Val Asp Val Ala Asp Lys Gly Tyr
215
216
                                 135
218
         Thr Leu Asn Ile Lys Phe Ala Gly Lys Glu Lys Thr Pro Glu Glu Pro
                                                 155
219
                             150
        Lys Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Tyr Ala Asp Gly Lys
221
                                             170
222
        Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Glu Ala Thr Ala Glu
224
```

Input Set : D:\402.app.txt

```
190
                     180
                                         185
225
         Ala Tyr Arg Tyr Ala Asp Leu Leu Ala Lys Glu Asn Gly Lys Tyr Thr
227
                                     200
                                                          205
228
         Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly
230
                                215
231
         Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
233
                                                  235
                             230
234
         Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
236
                                              250
237
                         245
         Thr Phe Ala Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Leu Leu
239
                                          265
240
                     260
         Ala Lys Glu Asn Gly Lys Tyr Thr Ala Asp Leu Glu Asp Gly Gly Tyr
242
                                     280
243
         Thr Ile Asn Ile Arg Phe Ala Gly Lys Lys Val Asp Glu Lys Pro Glu
245
                                                      300
                                 295
246
         Glu Pro Met Asp Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys
248
                                                  315
249
                             310
         Gly Glu Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val
251
                        . 325
                                              330
                                                                  335
252
         Phe Lys Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr
254
255
                                         345
                     340
         Asp Asp Ala Thr Lys Thr Phe Thr Val Thr Glu Lys Pro Glu Val Ile
257
258
                                     360
                                                          365
         Asp Ala Ser Glu Leu Thr Pro Ala Val Thr Thr Tyr Lys Leu Val Ile
260
                                 375
                                                      380
261
         Asn Gly Lys Thr Leu Lys Gly Glu Thr Thr Thr Lys Ala Val Asp Ala
263
264
                             390
                                                 395
         Glu Thr Ala Glu Lys Ala Phe Lys Gln Tyr Ala Asn Asp Asn Gly Val
266
                                              410
267
                         405
         Asp Gly Val Trp Thr Tyr Asp Asp Ala Thr Lys Thr Phe Thr Val Thr
269
270
                     420
                                         425
272
        Glu Met
275 (2) INFORMATION FOR SEQ ID NO: 4:
277
         (i) SEQUENCE CHARACTERISTICS:
278
              (A) LENGTH: 1308 base pairs
279
              (B) TYPE: nucleic acid
280
              (C) STRANDEDNESS: double
281
              (D) TOPOLOGY: unknown
        (ii) MOLECULE TYPE: DNA (genomic)
283
285
       (iii) HYPOTHETICAL: NO
        (vi) ORIGINAL SOURCE:
287
              (A) ORGANISM: Escherichia coli L392/pHDLG, DSM 7055
288
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
292
                                                                            60
294 GCGGTAGAAA ATAAAGAAGA AACACCAGAA ACACCAGAAA CTGATTCAGA AGAAGAAGTA
296 ACAATCAAAG CTAACCTAAT CTTTGCAAAT GGAAGCACAC AAACTGCAGA ATTCAAAGGA
                                                                           120
                                                                           180
298 ACATTIGAAA AAGCAACATC AGAAGCTTAT GCGTATGCAG ATACTTIGAA GAAAGACAAT
300 GGAGAATATA CTGTAGATGT TGCAGATAAA GGTTATACTT TAAATATTAA ATTTGCTGGA
                                                                           240
302 AAAGAAAAA CACCAGAAGA ACCAAAAGAA GAAGTTACTA TTAAAGCAAA CTTAATCTAT
                                                                           300
304 GCAGATGGAA AAACACAAAC AGCAGAATTC AAAGGAACAT TTGAAGAAGC AACAGCAGAA
                                                                           360
```

Input Set : D:\402.app.txt

308	0035																
	GCA:	TACA	GAT A	ATGC	GAT	C A	CTAA	AGAAG	GAG	CAAT	GGAG	AATA	TAC	AGT I	AGAC	STTGCA	420
310	GAT	AAAG	GTT A	ATACI	TTA	AA TA	ATTA	TTTA	GC:	rgga <i>i</i>	AAAG	AAA	AAAC	ACC I	AGAA	GAACCA	480
	AAA	GAAG	AAG !	TAC?	TTAT	AA AA	CAA	ACTTA	ATC	CTATO	GCAG	ATG	SAAA	AAC	ACAA	ACAGCA	540
312	GAA!	TTCA	AAG (SAACA	TTTC	A AC	GAAG	CAACA	A GC	AGAA	GCAT	ACAC	CATA	rgc '	TGAC'	TTATTA	600
314	GCA	AAAG	AAA A	ATGGT	'AAA'	TA T	ACAG!	TAGA C	GT:	rgca(GATA	AAG	TTAT	rac '	TTTA	TATAL	660
316	AAA!	TTTG	CTG (GAAAA	GAAZ	AA AA	ACAC	CAGAA	GA/	ACCAZ	AAAG	AAG	AGT	rac '	TATTA	AAAGCA	720
318	AAC!	TTAA'	TCT A	ATGC	GAT	G A	AAAA	CTCAA	A AC	AGCAG	GAGT	TCA	AGGI	AAC	ATTT	GCAGAA	780
																TATACA	
																GTTGAC	
		_														TTGAAA	
																CAATAC	
																TTTACA	
																ACTTAC	
																SACGCA	
																STTTGG	
								TTACG							1001	311100	1308
								NO: 5		MCI	JAAA	1611	mını	•			1500
	(2)																
340		(1	•	_				ISTIC case									
341			•	•					-	. 5							
342			•	•				acid									
343			•	•				doub)Te								
344			•) TO													
346		•	•					(ger	omic	2)							
348		•) HYI			ут: і	NO										
351		(1X) FE														
352			•	A) NA	•												
353																	
								1329									
356		-) SE	QUENC	CE DI	ESCR	[PTI	ON: 5									40
358	AAC	GGT	SE(QUENC GGT	CE DI AAT	ESCR: CCT	PTIC AGG	ON: S GAA	GTT	ATA	GAA	GAT			GCA		48
358 359	AAC Asn	GGT	SE(QUENC GGT	CE DI AAT Asn	ESCR: CCT	PTIC AGG	ON: S GAA	GTT	ATA Ile	GAA	GAT			Ala		48
358 359 360	AAC Asn 1	GGT Gly	GAT Asp	GGT GLY	CE DI AAT Asn 5	ESCR CCT Pro	PTIC AGG Arg	ON: S GAA Glu	GTT Val	ATA Ile 10	GAA Glu	GAT Asp	Leu	Ala	Ala 15	Asn	
358 359 360 362	AAC Asn 1 AAT	GGT Gly CCC	GAT Asp GCA	QUENC GGT Gly ATA	E DI AAT Asn 5 CAA	ESCR: CCT Pro	PTIC AGG Arg ATA	ON: S GAA Glu CGT	GTT Val TTA	ATA Ile 10 CGT	GAA Glu CAC	GAT Asp GAA	Leu AAC	Ala AAG	Ala 15 GAC	Asn TTA	48 96
358 359 360 362 363	AAC Asn 1 AAT	GGT Gly CCC	GAT Asp GCA	GGT Gly ATA	E DI AAT Asn 5 CAA	ESCR: CCT Pro	PTIC AGG Arg ATA	ON: S GAA Glu CGT	GTT Val TTA Leu	ATA Ile 10 CGT	GAA Glu CAC	GAT Asp GAA	Leu AAC	Ala AAG Lys	Ala 15	Asn TTA	
358 359 360 362 363 364	AAC Asn 1 AAT Asn	GGT Gly CCC Pro	GAT Asp GCA Ala	GGT Gly ATA Ile 20	AAT Asn 5 CAA Gln	CCT Pro AAT Asn	AGG Arg Arg ATA	ON: S GAA Glu CGT Arg	GTT Val TTA Leu 25	ATA Ile 10 CGT Arg	GAA Glu CAC His	GAT Asp GAA Glu	Leu AAC Asn	Ala AAG Lys 30	Ala 15 GAC Asp	Asn TTA Leu	96
358 359 360 362 363 364 366	AAC Asn 1 AAT Asn	GGT Gly CCC Pro	SEG GAT Asp GCA Ala AGA	QUENC GGT Gly ATA Ile 20 TTA	EE DI AAT Asn 5 CAA Gln GAG	ESCRI CCT Pro AAT ASN	AGG Arg ATA Ile GCA	ON: S GAA Glu CGT Arg ATG	GTT Val TTA Leu 25 GAA	ATA Ile 10 CGT Arg	GAA Glu CAC His	GAT Asp GAA Glu GGA	Leu AAC Asn AGA	Ala AAG Lys 30 GAT	Ala 15 GAC Asp	Asn TTA Leu AAG	
358 359 360 362 363 364 366	AAC Asn 1 AAT Asn	GGT Gly CCC Pro	GAT ASP GCA Ala AGA Arg	QUENC GGT Gly ATA Ile 20 TTA	EE DI AAT Asn 5 CAA Gln GAG	ESCRI CCT Pro AAT ASN	AGG Arg ATA Ile GCA	ON: S GAA Glu CGT Arg ATG	GTT Val TTA Leu 25 GAA	ATA Ile 10 CGT Arg	GAA Glu CAC His	GAT Asp GAA Glu GGA	Leu AAC Asn AGA Arg	Ala AAG Lys 30 GAT	Ala 15 GAC Asp	Asn TTA Leu AAG	96
358 359 360 362 363 364 366 367 368	AAC Asn 1 AAT Asn AAA Lys	GGT Gly CCC Pro GCG Ala	GAT Asp GCA Ala AGA Arg 35	QUENC GGT Gly ATA Ile 20 TTA Leu	CE DE AAT Asn 5 CAA Gln GAG Glu	ESCRI CCT Pro AAT Asn AAT	ATA Ile GCA Ala	ON: S GAA Glu CGT Arg ATG Met 40	GTT Val TTA Leu 25 GAA Glu	ATA Ile 10 CGT Arg GTT Val	GAA Glu CAC His GCA Ala	GAT Asp GAA Glu GGA Gly	Leu AAC Asn AGA Arg 45	Ala AAG Lys 30 GAT Asp	Ala 15 GAC Asp TTT Phe	TTA Leu AAG Lys	96 144
358 359 360 362 363 364 366 367 368 370	AAC Asn 1 AAT Asn AAA Lys	GGT Gly CCC Pro GCG Ala GCT	GAT ASP GCA Ala AGA Arg 35 GAA	GGT Gly ATA Ile 20 TTA Leu	AAT Asn 5 CAA Gln GAG Glu CTT	ESCRI CCT Pro AAT Asn AAT Asn	AGG Arg ATA Ile GCA Ala	ON: SGAA Glu CGT Arg ATG Met 40 GCA	GTT Val TTA Leu 25 GAA Glu	ATA ile 10 CGT Arg GTT Val	GAA Glu CAC His GCA Ala	GAT Asp GAA Glu GGA Gly TTA	AAC Asn AGA Arg 45 GAA	Ala AAG Lys 30 GAT Asp	Ala 15 GAC Asp TTT Phe	Asn TTA Leu AAG Lys CGT	96
358 359 360 362 363 364 366 367 368 370	AAC Asn 1 AAT Asn AAA Lys	GGT Gly CCC Pro GCG Ala GCT	GAT ASP GCA Ala AGA Arg 35 GAA	GGT Gly ATA Ile 20 TTA Leu	AAT Asn 5 CAA Gln GAG Glu CTT	ESCRI CCT Pro AAT Asn AAT Asn	AGG Arg ATA Ile GCA Ala	ON: SGAA Glu CGT Arg ATG Met 40 GCA	GTT Val TTA Leu 25 GAA Glu	ATA ile 10 CGT Arg GTT Val	GAA Glu CAC His GCA Ala	GAT Asp GAA Glu GGA Gly TTA	AAC Asn AGA Arg 45 GAA	Ala AAG Lys 30 GAT Asp	Ala 15 GAC Asp TTT Phe	Asn TTA Leu AAG Lys CGT	96 144
358 359 360 362 363 364 366 367 368 370	AAC Asn 1 AAT Asn AAA Lys	GGT Gly CCC Pro GCG Ala GCT	GAT ASP GCA Ala AGA Arg 35 GAA	GGT Gly ATA Ile 20 TTA Leu	AAT Asn 5 CAA Gln GAG Glu CTT	ESCRI CCT Pro AAT Asn AAT Asn	AGG Arg ATA Ile GCA Ala	ON: SGAA Glu CGT Arg ATG Met 40 GCA	GTT Val TTA Leu 25 GAA Glu	ATA ile 10 CGT Arg GTT Val	GAA Glu CAC His GCA Ala	GAT Asp GAA Glu GGA Gly TTA	AAC Asn AGA Arg 45 GAA	Ala AAG Lys 30 GAT Asp	Ala 15 GAC Asp TTT Phe	Asn TTA Leu AAG Lys CGT	96 144
358 359 360 362 363 364 366 367 368 370 371 372 374	AAC Asn 1 AAT Asn AAA Lys AGA Arg	GGT Gly CCC Pro GCG Ala GCT Ala 50 GAT	GAT Asp GCA Ala AGA Arg 35 GAA Glu	GGT Gly ATA Ile 20 TTA Leu GAA Glu	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT	CCT Pro AAT ASN AAT ASN GAA Glu	ATA Ile GCA Ala AAA Lys 55 TTA	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala	TTA Leu 25 GAA Glu AAA Lys	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA	GAA Glu CAC His GCA Ala GCC Ala	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA	AAC Asn AGA Arg 45 GAA Glu	Ala AAG Lys 30 GAT Asp GAC Asp	Ala 15 GAC Asp TTT Phe CAG Gln	Asn TTA Leu AAG Lys CGT Arg	96 144
358 359 360 362 363 364 366 367 368 370 371 372 374	AAC Asn 1 AAT Asn AAA Lys AGA Arg	GGT Gly CCC Pro GCG Ala GCT Ala 50 GAT	GAT Asp GCA Ala AGA Arg 35 GAA Glu	GGT Gly ATA Ile 20 TTA Leu GAA Glu	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT	CCT Pro AAT ASN AAT ASN GAA Glu	ATA Ile GCA Ala AAA Lys 55 TTA	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala	TTA Leu 25 GAA Glu AAA Lys	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA	GAA Glu CAC His GCA Ala GCC Ala	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA	AAC Asn AGA Arg 45 GAA Glu	Ala AAG Lys 30 GAT Asp GAC Asp	Ala 15 GAC Asp TTT Phe CAG Gln	Asn TTA Leu AAG Lys CGT Arg	96 144 192
358 359 360 362 363 364 366 367 368 370 371 372 374	AAC Asn 1 AAT Asn AAA Lys AGA Arg	GGT Gly CCC Pro GCG Ala GCT Ala 50 GAT	GAT Asp GCA Ala AGA Arg 35 GAA Glu	GGT Gly ATA Ile 20 TTA Leu GAA Glu	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT	CCT Pro AAT ASN AAT ASN GAA Glu	ATA Ile GCA Ala AAA Lys 55 TTA	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala	TTA Leu 25 GAA Glu AAA Lys	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA	GAA Glu CAC His GCA Ala GCC Ala	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA	AAC Asn AGA Arg 45 GAA Glu	Ala AAG Lys 30 GAT Asp GAC Asp	Ala 15 GAC Asp TTT Phe CAG Gln	Asn TTA Leu AAG Lys CGT Arg	96 144 192
358 359 360 362 363 364 366 367 368 370 371 372 374 375 376	AAC Asn 1 AAT Asn AAA Lys AGA Arg AAA Lys 65	GGT Gly CCC Pro GCG Ala GCT Ala 50 GAT Asp	GAT Asp GCA Ala AGA Arg 35 GAA Glu TTA Leu	GGT Gly ATA Ile 20 TTA Leu GAA Glu	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT Thr	CCT Pro AAT Asn AAT Asn GAA Glu AAA Lys	ATA Ile GCA Ala AAA Lys 55 TTA Leu	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala AAA Lys	GTT Val TTA Leu 25 GAA Glu AAA Lys GAA Glu	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA Leu	GAA Glu CAC His GCA Ala GCC Ala CAA Gln 75	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA Gln	AAC Asn AGA Arg 45 GAA Glu GAC Asp	Ala AAG Lys 30 GAT Asp GAC Asp	Ala 15 GAC Asp TTT Phe CAG Gln	Asn TTA Leu AAG Lys CGT Arg TTA Leu 80	96 144 192
358 359 360 362 363 364 366 367 368 370 371 372 374 375 376	AAC Asn 1 AAT Asn AAA Lys AGA Arg AAA Lys 65 GCA	GGT Gly CCC Pro GCG Ala GCT Ala 50 GAT Asp	GAT Asp GCA Ala AGA Arg GAA Glu TTA Leu GAA	GGT Gly ATA Ile 20 TTA Leu GAA Glu GAA Glu	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT Thr	CCT Pro AAT Asn AAT Asn GAA Glu AAA Lys 70 AGT	ATA Ile GCA Ala AAA Lys 55 TTA Leu TGG	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala AAA Lys	GTT Val TTA Leu 25 GAA Glu AAA Lys GAA Glu	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA Leu CAA	GAA Glu CAC His GCA Ala GCC Ala CAA Gln 75 AGA	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA Gln	AAC Asn AGA Arg 45 GAA Glu GAC Asp	Ala AAG Lys 30 GAT Asp GAC Asp TAT Tyr	Ala 15 GAC Asp TTT Phe CAG Gln GAC Asp	Asn TTA Leu AAG Lys CGT Arg TTA Leu 80 TTA	96 144 192 240
358 359 360 362 363 364 366 367 368 370 371 372 374 375 376 378	AAC Asn 1 AAT Asn AAA Lys AGA Arg AAA Lys 65 GCA	GGT Gly CCC Pro GCG Ala GCT Ala 50 GAT Asp	GAT Asp GCA Ala AGA Arg GAA Glu TTA Leu GAA	GGT Gly ATA Ile 20 TTA Leu GAA Glu GAA Glu	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT Thr	CCT Pro AAT Asn AAT Asn GAA Glu AAA Lys 70 AGT	ATA Ile GCA Ala AAA Lys 55 TTA Leu TGG	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala AAA Lys	GTT Val TTA Leu 25 GAA Glu AAA Lys GAA Glu	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA Leu CAA	GAA Glu CAC His GCA Ala GCC Ala CAA Gln 75 AGA	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA Gln	AAC Asn AGA Arg 45 GAA Glu GAC Asp	Ala AAG Lys 30 GAT Asp GAC Asp TAT Tyr	Ala 15 GAC Asp TTT Phe CAG Gln GAC Asp	Asn TTA Leu AAG Lys CGT Arg TTA Leu 80 TTA	96 144 192 240
358 359 360 362 363 364 366 367 368 370 371 372 374 375 376 378 379 380	AAC Asn 1 AAT Asn AAA Lys AGA Arg AAA Lys 65 GCA Ala	GGT Gly CCC Pro GCG Ala 50 GAT Asp AAG Lys	GAT Asp GCA Ala AGA Arg GAA Glu TTA Leu GAA Glu	GGT Gly ATA Ile 20 TTA Leu GAA Glu TCA Ser	AAT ASN 5 CAA Gln GAG Glu CTT Leu ACT Thr ACA Thr 85	CCT Pro AAT Asn AAT Asn GAA Glu AAA Lys 70 AGT Ser	ATA Ile GCA Ala AAA Lys 55 TTA Leu TGG	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala AAA Lys GAT Asp	GTT Val TTA Leu 25 GAA Glu AAA Lys GAA Glu AGA Arg	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA Leu CAA Gln 90	GAA Glu CAC His GCA Ala GCC Ala CAA Gln 75 AGA Arg	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA Gln CTT Leu	AAC Asn AGA Arg 45 GAA Glu GAC Asp GAA Glu	Ala AAG Lys 30 GAT Asp GAC Asp TAT Tyr AAA Lys	Ala 15 GAC Asp TTT Phe CAG Gln GAC Asp GAG Glu 95	Asn TTA Leu AAG Lys CGT Arg TTA Leu 80 TTA Leu	96 144 192 240
358 359 360 362 363 364 366 367 368 370 371 372 374 375 376 378 379 380 382	AAC Asn 1 AAT Asn AAA Lys AGA Arg AAA Lys GCA Ala	GGT Gly CCC Pro GCG Ala 50 GAT Asp AAG Lys	GAT Asp GCA Ala AGA Arg GSAA Glu TTA Leu GAA Glu AAA	GGT Gly ATA Ile 20 TTA Leu GAA Glu TCA Ser	AAT Asn 5 CAA Gln GAG Glu CTT Leu ACT Thr ACA Thr 85 GAA	CCT Pro AAT Asn AAT Asn GAA Glu AAA Lys 70 AGT Ser	ATA Ile GCA Ala AAA Lys 55 TTA Leu TGG Trp CTT	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala AAA Lys GAT Asp	GTT Val TTA Leu 25 GAA Glu AAA Lys GAA Glu AGA Arg	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA Leu CAA Gln 90 GCG	GAA Glu CAC His GCA Ala GCC Ala CAA Gln 75 AGA Arg	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA Gln CTT Leu	AAC Asn AGA Arg 45 GAA Glu GAC Asp GAA Glu	Ala AAG Lys 30 GAT Asp GAC Asp TAT Tyr AAA Lys GCA	Ala 15 GAC Asp TTT Phe CAG Gln GAC Asp GAG Glu 95 AGT	Asn TTA Leu AAG Lys CGT Arg TTA Leu 80 TTA Leu CGG	96 144 192 240 288
358 359 360 362 363 364 366 367 368 370 371 372 374 375 376 378 379 380 382	AAC Asn 1 AAT Asn AAA Lys AGA Arg AAA Lys GCA Ala	GGT Gly CCC Pro GCG Ala 50 GAT Asp AAG Lys	GAT Asp GCA Ala AGA Arg GSAA Glu TTA Leu GAA Glu AAA	GGT Gly ATA Ile 20 TTA Leu GAA Glu TCA Ser	AAT Asn 5 CAA Gln GAG Glu CTT Leu ACT Thr ACA Thr 85 GAA	CCT Pro AAT Asn AAT Asn GAA Glu AAA Lys 70 AGT Ser	ATA Ile GCA Ala AAA Lys 55 TTA Leu TGG Trp CTT	ON: S GAA Glu CGT Arg ATG Met 40 GCA Ala AAA Lys GAT Asp	GTT Val TTA Leu 25 GAA Glu AAA Lys GAA Glu AGA Arg	ATA Ile 10 CGT Arg GTT Val CAA Gln CTA Leu CAA Gln 90 GCG	GAA Glu CAC His GCA Ala GCC Ala CAA Gln 75 AGA Arg	GAT Asp GAA Glu GGA Gly TTA Leu 60 CAA Gln CTT Leu	AAC Asn AGA Arg 45 GAA Glu GAC Asp GAA Glu	Ala AAG Lys 30 GAT Asp GAC Asp TAT Tyr AAA Lys GCA	Ala 15 GAC Asp TTT Phe CAG Gln GAC Asp GAG Glu 95	Asn TTA Leu AAG Lys CGT Arg TTA Leu 80 TTA Leu CGG	96 144 192 240 288

VERIFICATION SUMMARY

DATE: 10/10/2002

PATENT APPLICATION: US/08/325,278B

TIME: 10:34:29

Input Set : D:\402.app.txt

Output Set: N:\CRF4\10102002\H325278B.raw

L:6 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]